Alec Pool

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EDUCATION

University of Maryland (UMD) — College Park, MD
BS in Computer Science, Minor in Astronomy — *Expected May 2023*

- **GPA:** 3.6
- **Relevant Coursework:** Algorithms, Data Structures, Introduction to ML, Introduction to Data Science, Object Orientated Programming II, Linear Algebra, Applied Probability and Statistics, Organization of Programming Languages, Network Security
- **Maximum President's Merit Scholarship,** *UMD*
- **Award for Highest Performer in Mathematics,** *Ridgefield High School*

TECHNICAL SKILLS

Languages (Proficient): Java, Python, C
Languages (Experience): JavaScript, AngularJS, HTML/CSS, SQLite, R, LaTeX, Ruby, OCaml, Rust, Assembly(MIPS), MatLab, Swift
Technologies: Git/GitHub/GitLab, Google Cloud, Jupyter, Docker, Vim, JUnit, VSCode, IntelliJ, PyCharm, Eclipse, RStudio, MacOS, Windows, Unix

PROJECTS

UMD GenEd Search | *Java, HTTP Requests, APIs, JSoup, IntelliJ* — August 2021 – Present
- **Sent** HTTP GET Requests to the PlanetTerp API
- **Processed and Parsed** JSON formatted response using a third party JSON Parser.
- **Implemented** the JSoup HTML Web Scraping API
- **Stored** processed data in self-made **Data Structure**, a Hash Map containing mappings of String to TreeSet

CSGO Game Analysis | *Python, Jupyter, numpy, pandas, sklearn, Docker* — November 2021 – Present
- **Performed** data **curation**, exploratory data **analysis**, and hypothesis testing with **machine learning**
- Walked through the **data science pipeline** using CSGO professional match data

NEAT Dino Game Implementation | *Python, PyCharm, NEAT* — December 2021 – Present
- **Implemented** the Neuroevolution of Augmenting Topologies (NEAT) **machine learning** algorithm to my own version of the Google Chrome dino game

EXPERIENCE

Tutor for Fundamentals of Computer Science II — September 2021 – January 2022
York College — *Queens, New York City*
- **Taught** OOP Constructs, Data Structures, Sorting/Searching Algorithms, in Java

Head Lifeguard and Assistant Head Lifeguard: — May 2018 - September 2018
WHOA — *Ridgefield, CT*
- **Lead** a team of Junior Lifeguards
- **Organized** the Schedule of both events and Junior Lifeguard shifts
- **Communicated** with Lifeguards, Patrons, President, and Maintenance

Spring State House Intern: — May 2019 - June 2019
Connecticut State House of Representatives — *Hartford, CT*
- **Researched** for a team project to record historical information on State House representatives

COMMUNITY & LEADERSHIP

Vice-President of Internal Affairs — October 2021 – Present
Sigma Phi Delta Engineering/Computer Science Fraternity, Beta-Iota Chapter — *College Park, MD*
- **Leading** and **Organizing** teams of brothers, spanning all necessary internal fraternity functions
- **Decision Making** as an executive board member

Founding member, Vice-President, and Web-Developer/Organizer, — February 2021 – Present
Kids At Heart Volunteer Organization — *College Park, MD*
- **Developed and Manage** organization website
- **Organize and Lead** organization members